

**To:** Bagley, Mark[Bagley.Mark@epa.gov]  
**From:** Orme-Zavaleta, Jennifer  
**Sent:** Thur 8/20/2015 5:15:30 PM  
**Subject:** RE: Animas River WQ Modeling

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Right now on hold for animas other than talking and scoping. Depending on what comes from Agency plan, this may well be scoped in to SSWR

**From:** Bagley, Mark  
**Sent:** Thursday, August 20, 2015 12:32 PM  
**To:** Orme-Zavaleta, Jennifer  
**Subject:** FW: Animas River WQ Modeling

Jennifer, it might be good for you to weigh in on the priority of the Animas work. Heather may feel some heat from SSWR if she has to drop the ball on a few things as PL.

-Mark

**From:** Golden, Heather  
**Sent:** Thursday, August 20, 2015 12:18 PM  
**To:** Bagley, Mark; Fulk, Florence  
**Subject:** RE: Animas River WQ Modeling

Thanks for the feedback. We (Kramer, me, Yusuf) are "hydrologists" of sorts, Steve = groundwater, Yusuf = surface water. I'll argue for all three being involved...

It sounds like this is a higher priority than getting the SSWR task plans submitted this week and project lead commitments (like BOSC next week). ?

**From:** Bagley, Mark  
**Sent:** Thursday, August 20, 2015 12:11 PM  
**To:** Golden, Heather; Fulk, Florence  
**Subject:** RE: Animas River WQ Modeling

Unfortunately, this is highest priority. Kate has been told to delay delivery of a FY15 product that is on Jennifer's PARS, if that gives you a sense of things. I would argue for enlistment of more hydrologists if the load can be spread (isn't Kramer a hydrologist?)

I also would make it clear you don't have time to review Yusuf's manual

**From:** Golden, Heather  
**Sent:** Thursday, August 20, 2015 12:05 PM  
**To:** Bagley, Mark; Fulk, Florence  
**Subject:** FW: Animas River WQ Modeling  
**Importance:** High

Mark/Flo – Please see below. I have a ton of balls in the air right now (calendar packed tightly), and I'm

scrambling to get things accomplished before I'm out of the country starting Sept 3<sup>rd</sup>.

I'm seeking input on what the priority level is here and to what extent/whether to take direction from below?

Heather

**From:** Sullivan, Kate  
**Sent:** Thursday, August 20, 2015 11:56 AM  
**To:** Golden, Heather  
**Subject:** Animas River WQ Modeling

Hi Heather.

Couple of things.

I know last time we talked I put you on hold because we aren't thinking about watershed modeling as a need of figuring out Animas River chemistry at this point. As time goes along and the agency figures out its short and long term questions, that is likely to change.

However, as the week has worn on I realized we really could use a HYDROLOGIST in the project. Just straight up hydrology. (I'm actually a hydrologist/geomorphologist myself but I'm finding myself awfully busy trying to tend to mundane tasks to keep everyone moving.) So, we would like to enlist you now in that capacity. The first thing we have to do is get the real time water in the affected river from Cement Creek to Lake Powell. The good news is there are actually a pretty fair number of USGS gages nicely distributed through the system, so I think our best first approach to mimic the plume is to use an empirical approach based on the real time gage data.

Anyway, please call so we can discuss.

Second thing. As a hydrologist, would you be willing to peer review a user's manual for an evaporation calculator software tool developed by Yusuf Mohamoud?

Thanks

Kate Sullivan, Ph.D.

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